Kartikey Khanna

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SUMMARY

Java backend developer with a proven track record in designing scalable microservices and cloud-native solutions. Skilled in building BDD frameworks, real-time data synchronization using Azure Cosmos DB, and leveraging AI/ML for query systems and predictive forecasting. Adept at streamlining complex financial workflows through strong collaboration. Committed to continuous learning and adopting innovative technologies to deliver robust, high-impact software solutions.

EXPERIENCE

Bajaj Finserv   *Pune, IN*
Software Engineer   *Jul 2024 – Present*

- Developed and maintained backend functionalities for diverse loan microservices (business, professional, personal, and equipment), ensuring a **smooth migration from offline to online** environments while improving throughput, operational efficiency, and system flexibility.
- Collaborated with cross-functional teams to unify complex financial workflows, **streamlining loan execution** and financing processes while upholding robust data protection standards.
- Implemented the **Azure Cosmos DB Change Feed Processor** to monitor database containers for real-time changes, automating master data synchronization across microservices and eliminating the need for scheduled cron jobs.
- Developed and deployed an **internal query system** that enables internal teams to interact with our documentation portal—allowing questions about any module or API managed by the team—by leveraging extensive preprocessing and large language models for intelligent, context-aware responses.
- Designed and implemented an **API traffic and failure forecasting** solution for dynamic failure threshold notification handling, utilizing the **SARIMA** model for training and predictions to proactively mitigate potential system failures.
- Employed modern development practices and cloud-native technologies to further enhance system efficiency, resilience, and data security.

SDE Intern   *Jan 2024 – Jun 2024*

- Initiated and led the development of an advanced **BDD Cucumber** framework for **API testing**, reducing validation time by **80%** and significantly **boosting overall efficiency** across modular services.
- Contributed to backend development efforts for various loan microservices, supporting the transition from offline to online environments and **enhancing operational efficiency** and system flexibility.
- Streamlined comprehensive reporting processes, leading to a **50% improvement** in feedback loops, which accelerated issue identification and resolution.
- Facilitated effective collaboration between development, QA, and product teams, aligning quality assurance strategies with project goals to maintain full test coverage and ensure system stability.
- Played a key role in establishing robust automation practices, laying the groundwork for improved software quality and agile project delivery.

Blue Occean Research   *Remote*
Frontend Web Developer Intern   *May 2023 – July 2023*

- **Designed and developed** the company's landing and career pages using modern frontend frameworks, improving job application processing by **40%** with **AWS S3** integration.
- Optimized performance and responsiveness across platforms, reducing load times by **35%** for a seamless user experience.

PROJECTS

Heritians | *Next.Js/ReactJs, FastAPI*   *Feb 2023 – Dec 2023*

- **Digitized the 'Unnat Bharat Baseline Household Survey Form'** with a high-efficiency FastAPI backend, streamlining data workflows and **boosting performance by 40%.**

FundChain | *Next.Js/ReactJs, TailwindCSS, Solidity*   *Jan 2023 – Apr 2023*

- **Developed** a blockchain-based fundraising platform using Solidity, enabling **100% secure and transparent** transactions while achieving **seamless backend integration** for **high-efficiency fund processing.**

SKILLS

Java, JavaScript/TypeScript, Python, Docker, ReactJs/Next.Js, Node.js, Spring Boot, BDD (Cucumber), TailwindCSS, MongoDB, AWS, Azure, Kafka, Micro-Services

EDUCATION

Vellore Institute of Technology, Bhopal   *2020 - 2024*
B. Tech in Computer Science Engineering[Specialization in AI & ML]

EXTRA CURRICULARS

- **Top 10 Interns, Bajaj Finserv DevTalk 3.0**   *Apr 2024*
- **Top 36 Finalists, Bajaj Finserv HarckRx 4.0**   *Jul 2023*
- **Top 50 Amazon ML Challenge**   *Apr 2023*